# Actuarial Section

Report of the Actuary on the Annual Valuation of the Retiree Medical and Life Insurance Plans

for Fiscal Year ending June 30, 2009



Clifty School, 1910 Warren County, Kentucky



### Cavanaugh Macdonald

CONSULTING, LLC

December 14, 2009

Board of Trustees Teachers' Retirement System of the State of Kentucky 479 Versailles Road Frankfort, KY 40601-3800

Members of the Board:

Governmental Accounting Standards Board Statements No. 43 and 45 require the Teachers' Retirement System of the State of Kentucky (the System) to conduct actuarial valuations of the System's retiree medical and other post employment benefit plans. This report covers the Medical Insurance Fund and OPEB liabilities related to the Life Insurance Fund. Cavanaugh Macdonald Consulting, LLC (CMC) has submitted the results of the annual actuarial valuation prepared as of June 30, 2009. While not verifying the data at source, the actuary performed tests for consistency and reasonability.

The valuation indicates a total annual required contribution of 14.36% of active member payroll for the Medical Insurance Fund payable for the fiscal year ending June 30, 2012 is required to support the benefits of the Kentucky Employees Health Plan and the Medicare Eligible Health Plan. Of this amount, 0.75% of payroll is paid by those members entering the system prior to July 1, 2008 and 1.75% of payroll is paid by those members entering the System on or after July 1, 2008, leaving 13.61% and 12.61% respectively, as the State contribution. This required State contribution reflects the assets currently held in the Medical Insurance Fund. As the State contributions are less than the required levels, the discount rate for valuing liabilities is 4.5%. Schedule A shows the decrease in liabilities of the medical plans if the required contributions were made each year and the funded discount rates of 7.5% or 8.0% could be utilized.

The Medical Insurance Fund valuation takes into account the effect of amendments to the medical plans enacted through the most recent session of the Legislature. Several changes were made to the assumptions and methods used to determine the liability. The results of this valuation include a reduction in future payments estimated to be made by the System by providing prescription drug benefits to Medicare eligible retirees under a fully insured Prescription Drug Plan (PDP) where, under GASB 43 and 45, subsidies may be recognized. Additionally, changes were made to the expected rates of participation, starting per capita claims costs, dependent coverage subsidies, the assumed rate of health care inflation, and the relationship of cost between ages. The actuarial accrued liability increased from \$6.4 billion in 2008 to \$6.5 billion in 2009.

The Life Insurance Fund valuation indicates a total annual required contribution of 0.05% of active member payroll payable for the fiscal year ending June 30, 2012 is required to support the benefits of the Life Insurance Fund. The current contribution rate of 0.17% of active member payroll payable for the fiscal year ending June 30, 2012 exceeds the amount sufficient to support the benefits of the Life Insurance Fund. With the State contributions to the Life Insurance Funds exceeding the required levels, the discount rate for valuing liabilities is 7.5%.

The promised benefits of the medical and life insurance plans are included in the actuarially calculated contribution rates which are developed using the unit credit actuarial cost method with projected benefits. The market value of plan assets is used for actuarial valuation purposes. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions as a level percentage of payroll within a 30-year period, on the assumption that payroll will increase by 4.0% annually. The assumptions recommended by the actuary and adopted by the Board are in aggregate reasonably related to the experience under the medical and life insurance plans and to reasonable expectations of anticipated experience under the medical and life insurance plans and meet the parameters for the disclosures under GASB 43 and 45.

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CMC has prepared the trend information shown in the Schedule of Funding Progress and the Schedule of Employer Contributions in the Financial Section of the Annual Report and Schedule A and Schedule C shown in the Actuarial Section of the Annual Report.

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the medical and life insurance plans and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the plans.

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

In our opinion, if the State contributions to the Medical Insurance Fund are increased to the required levels, the medical plans will begin to operate in an actuarially sound basis. Assuming that required contributions to the Medical Insurance Fund are made by the employer from year to year in the future at the levels required on the basis of the successive actuarial valuations, the actuarial soundness of the Medical Insurance Fund to provide the benefits called for under the medical plans will improve.

Respectfully submitted,

Eric Gary, FSA, FCA, MAAA Senior Actuary Alisa Bennett, ASA, EA, FCA, MAAA Principal and Senior Actuary

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3550 Busbee Pkwy, Suite 250, Kennesaw, GA 30144

## Report of Actuary on the on the Annual Valuation of the Retiree Medical and Life Insurance Plans

Prepared as of June 30, 2009

#### **Section I - Summary of Principal Results**

1. For convenience of reference, the principal results of the valuation and a comparison with the results of the previous valuation are summarized below (all dollar amounts are \$1,000's):

|  | ~ Medical Insur          | ance Fund ~              |               |  |
|--|--------------------------|--------------------------|---------------|--|
| Valuation Date   | June 30, 2009            |                          | June 30, 2008 |  |
| Number of active members                                       |                          | 75,937                   | 75,539        |  |
| Annual salaries  | \$ 3,2                   | 253,077                  | \$ 3,190,332  |  |
| Number of annuitants in medical plans<br>Number of spouses and |                          | 33,481                   | 32,591        |  |
| beneficiaries in medical plans*                                |                          | 6,808                    | 6,678         |  |
| Total  |                          | 40,289                   | 39,269        |  |
| Assets:  |                          |                          |               |  |
| Market value   | \$ 2                     | 29,103                   | \$ 185,883    |  |
| Unfunded actuarial accrued liability                           | \$ 6,2                   | 25,630                   | \$ 6,248,639  |  |
| Amortization period (years)                                    |                          | 30                       | 30            |  |
| Discount rate  |                          | 4.50%                    | 4.50%         |  |
| Contribution for fiscal year ending:                           | June 30, 2               | 012                      | June 30, 2011 |  |
|  | Hired prior<br>to 7/1/08 | Hired on or after 7/1/08 |               |  |
| Normal   | 7.53%                    | 7.53%                    | 7.60%         |  |
| Accrued liability  | 6.83%                    | 6.83%                    | 6.99%         |  |
| Total  | 14.36%                   | 14.36%                   | 14.59%        |  |
| Member   | 0.75%                    | 1.75%                    | 0.75%         |  |
| State (ARC)  | 13.61%                   | 12.61%                   | 13.84%        |  |
| Total  | 14.36%                   | 14.36%                   | 14.59%        |  |

<sup>\*</sup> Spouses of post-65 retirees, as well as surviving spouses of deceased retirees, pay 100% of the full contribution. 100% of the full contribution for non-Medicare eligible dependents is paid through a combination of payments from beneficiaries and the State.

| Valuation Date  | June 30, 2009                            | June 30, 2008                        |
|---|--|--------------------------------------|
| Number of active members<br>Annual salaries   | 75,937<br>\$ 3,253,077                   | 75,539<br>\$ 3,190,332               |
| Number retirees in Life Insurance Plan  | 38,958                                   | 37,778                               |
| Assets:  Market value Unfunded actuarial accrued liability* Amortization period (years) Discount rate | \$ 84,703<br>\$ 5,631<br>30<br>7.50%     | \$ 77,658<br>\$ 6,607<br>30<br>7.50% |
| Contribution for fiscal year ending:  | June 30, 2012                            | June 30, 2011                        |
| Normal<br>Accrued liability<br>Total  | $0.04\% \\ \underline{0.01\%} \\ 0.05\%$ | 0.04%<br><u>0.01%</u><br>0.05%       |



<sup>\*</sup> Includes liability for death in active service. This amount could be segregated from the OPEB liability and assets could be split for active and post employment purposes. However, since this could be administratively burdensome and since death in active service liabilities can be considered de minimis, it is acceptable to consider the entire liability an OPEB liability under GASB 43 and 45.

- 2. The valuation indicates combined member and State contributions of 14.36% of active member payroll would be sufficient to support the current benefits of the medical plans and State contributions of 0.05% of active member payroll would be sufficient to support the current benefits of the life insurance plan. Comments on the valuation results as of June 30, 2009 are given in Section IV and further discussion of the contribution levels is set out in Sections V and VI.
- 3. Schedule C of this report outlines the full set of actuarial assumptions and methods employed in the current valuation. There have been several changes made to the assumptions and methods used to determine the liability since the previous valuation. The results of this valuation include a reduction in future payments estimated to be made by the System by providing prescription drug benefits to Medicare eligible retirees under a fully insured Prescription Drug Plan, changes made to the expected rates of participation, starting per capita claims costs, dependent coverage subsidies, the assumed rate of health care inflation, and the relationship of cost between ages.
- 4. The valuation takes into account the effect of amendments to the medical plans enacted through the most recent session of the Legislature.
- 5. All amounts shown prior to the 2005 valuation year were developed and/or reported by the prior actuarial firm.

#### Section II - MEMBERSHIP DATA

1. Data regarding the membership of the medical and life insurance plans for use as a basis of the valuation were furnished by the System office. The following table shows the number of active members and their annual salaries as of June 30, 2009 on the basis of which the valuation was prepared.

| Group                  | Number     | Annual<br>Salaries (\$1,000's) |
|------------------------|------------|--------------------------------|
| Full Time<br>Part Time | 56,219<br> | \$ 3,026,198<br><u>226,879</u> |
| Total                  | 75,937     | \$ 3,253,077                   |



#### **Section III - ASSETS**

- 1. As of June 30, 2009 the market value of Medical Insurance Fund assets for valuation purposes held by the medical plans amounted to \$229,103,015 and the market value of Life Insurance Fund assets for valuation purposes held by the life insurance plan amounted to \$84,702,634.
- 2. Schedule B shows the receipts and disbursements for the year preceding the valuation date and a reconciliation of the asset balances for the Medical Insurance Fund and the Life Insurance Fund.

#### Section IV - COMMENTS ON VALUATION

- 1. Schedule A of this report outlines the results of the actuarial valuation and illustrates the benefits of pre-funding the liability for the medical and life insurance plans. The valuation was prepared in accordance with the actuarial assumptions and the actuarial cost method, which are described in Schedule C.
- 2. The valuation shows that the medical plans have an actuarial accrued liability of \$3,250,990,231 for benefits expected to be paid on account of the present active membership, based on service to the valuation date. The liability on account of benefits payable to retirees and covered spouses amounts to \$3,203,742,794. The total actuarial accrued liability of the medical plans amounts to \$6,454,733,025. Against these liabilities, the medical plans have present assets for valuation purposes of \$229,103,015. When this amount is deducted from the actuarial accrued liability of \$6,454,733,025 there remains \$6,225,630,010 as the unfunded actuarial accrued liability for the medical plans.
- 3. The normal contribution is equal to the actuarial present value of benefits accruing during the current year. The normal contribution for the medical plans is determined to be \$245,037,866, or 7.53% of payroll.
- 4. The valuation shows that the life insurance plan has an actuarial accrued liability of \$18,352,634 for benefits expected to be paid on account of the present active membership, based on service to the valuation date. The liability on account of benefits payable to retirees and covered spouses amounts to \$71,981,484. The total actuarial accrued liability of the life insurance plan amounts to \$90,334,118. This amount includes liability for death in active service. The liability for death in active service could be segregated from the OPEB liability and assets could be split for active and post employment purposes. As this could be administratively burdensome and, as death in active service liabilities can be considered de minimis, it is acceptable to consider the entire liability an OPEB liability under GASB 43 and 45. Against these liabilities, the life insurance plan has present assets for valuation purposes of \$84,702,634. When this amount is deducted from the actuarial accrued liability of \$90,334,118 there remains \$5,631,484 as the unfunded actuarial accrued liability for the life insurance plan.
- 5. The normal contribution is equal to the actuarial present value of benefits accruing during the current year. The normal contribution for the life insurance plan is determined to be \$1,206,829, or 0.04% of payroll.



#### Section V - CONTRIBUTIONS PAYABLE UNDER THE SYSTEM

1. Section 161.420(5) of the Kentucky Revised Statutes provides that the State will contribute 0.75% of salary to the Medical Insurance Fund. Member contributions will be 1.75% for those who became members of the System on or after July 1, 2008 and 0.75% for all other members. CMC recommends the State contribution increase to the required amount of 13.61% of payroll for those employees hired prior to 7/1/2008 and 12.61% of payroll for those hired on or after 7/1/2008. The State is currently contributing 0.17% of salary to the Life Insurance Fund. CMC's valuation indicates a contribution of 0.05% is required to sufficiently support the benefits of the life insurance plan.

| Required Contribution Rates<br>For Fiscal Year Ending June 30, 2012 |   |  |                                |  |  |
|---|---|--|--------------------------------|--|--|
|   | Medical In<br>Fun                                     |  | Life Insurance<br>Fund         |  |  |
| Normal<br>Accrued liability<br>Total                                | 7.53%<br><u>6.83%</u><br>14.36%                       |  | $\frac{0.04\%}{0.05\%}$        |  |  |
| Member<br>State (ARC)<br>Total                                      | Hired prior<br>to 7/1/08<br>0.75%<br>13.61%<br>14.36% | Hired on or<br>after 7/1/08<br>1.75%<br>12.61%<br>14.36% | 0.00%<br><u>0.05%</u><br>0.05% |  |  |

- 2. The valuation indicates that a total normal contribution of 7.53% of payroll is required to meet the cost of benefits currently accruing under the medical plans and 0.04% of payroll is required to meet the cost of benefits currently accruing under the life insurance plan. The difference between the total contribution and the normal contribution remains to be applied toward the liquidation of the unfunded actuarial accrued liability. This accrued liability payment is 6.83% of payroll for the medical plans and 0.01% of payroll for the life insurance plan.
- 3. The unfunded actuarial accrued liability amounts to \$6,225,630,010 for the medical plans and \$5,631,484 for the life insurance plan as of the valuation date. An accrued liability contribution of 6.83% of payroll for the medical plans and 0.01% of payroll for the life insurance plan is sufficient to amortize the unfunded actuarial accrued liabilities over a 30-year period, based on the assumption that the payroll will increase by 4.0% annually.



#### Section VI - COMMENTS ON LEVEL OF FUNDING

- 1. The System's monthly contribution for retirees to opt into the medical plan is based upon date of hire and years of service at retirement. Additionally, beneficiary contributions may vary by plan election, Medicare eligibility and tobacco use. Beneficiary contributions for dependents are targeted to be 100% of the cost of expected claims for spouses age 65 and older. Historically, this target has been achieved. 100% of the full cost for non-Medicare eligible dependents is paid through a combination of payments from beneficiaries and the State. Current employer contributions have been determined to be insufficient to fund the cost of the benefits to be provided. Benefits and contributions for university and non-university members are identical.
- 2. The valuation indicates that a significant increase in contributions is required to fund the medical plans in an actuarially sound manner and to ensure the future solvency of the Medical Insurance Fund. For those who became members of the System on or after July 1, 2008, a member contribution of 1.75% of payroll together with a state contribution of 12.61% of payroll is required to meet the cost of benefits currently accruing and provide for the amortization of the unfunded actuarial accrued liability over a period of 30 years. For those who became members of the System prior to July 1, 2008, a member contribution of 0.75% of payroll together with a state contribution of 13.61% of payroll is required to meet the cost of benefits currently accruing and provide for the amortization of the unfunded actuarial accrued liability over a period of 30 years.

#### **Section VII - ACCOUNTING INFORMATION**

1. Governmental Accounting Standards Board Statements 43 and 45 set forth certain items of required supplementary information to be disclosed in the financial statements of the medical and life insurance plans and the employer.

| Number of Active and Retired Members in<br>Medical Plan as of June 30, 2009 |               |  |  |  |
|---|---------------|--|--|--|
| GROUP   | NUMBER        |  |  |  |
| Retirees currently receiving health benefits                                | 33,481        |  |  |  |
| Spouses of retirees currently receiving health benefits                     | 6,808         |  |  |  |
| Active plan members   | <u>75,937</u> |  |  |  |
| Total   | 116,226       |  |  |  |

| Number of Active and Retired Members<br>in Life Insurance Plan as of June 30, 2009 |         |  |  |  |
|--|---------|--|--|--|
| GROUP  | NUMBER  |  |  |  |
| Retirees   | 38,958  |  |  |  |
| Active plan members  | 75,937  |  |  |  |
| Total  | 114,895 |  |  |  |
|  |         |  |  |  |
|  |         |  |  |  |
|  |         |  |  |  |



## **Schedule of Funding Progress Medical Insurance Fund**

(Dollar amount in thousands)

|                        |                       | Actuarial Accrued<br>Liability<br>(AAL) | Unfunded                  |             |                           | UAAL as a<br>Percentage |
|------------------------|-----------------------|---|---------------------------|-------------|---------------------------|-------------------------|
| Actuarial              | Actuarial Value       | Projected Unit                          | AAL                       | Funded      | Covered                   | of Covered              |
| Valuation              | of Assets             | Credit                                  | (UAAL)                    | Ratio       | Payroll                   | Payroll                 |
| Date                   | (a)                   | (b)                                     | (b-a)                     | (a/b)       | <u>(c)</u>                | <u>((b-a) /c)</u>       |
| 6/30/2003<br>6/30/2004 | \$ 165,537<br>158.862 | \$ 2,886,000<br>3,166,568               | \$ 2,720,463<br>3,007,706 | 5.7%<br>5.0 | \$ 2,497,731<br>2.641.533 | 108.9%<br>113.9         |
| 6/30/2005              | 147,311               | 4,763,947                               | 4,616,636                 | 3.1         | 2,703,430                 | 170.8                   |
| 6/30/2006*             | 131,614               | 4,341,963                               | 4,210,349                 | 3.0         | 2,859,477                 | 147.2                   |
| 6/30/2007**            | 140,772               | 5,928,761                               | 5,787,989                 | 2.4         | 2,975,289                 | 194.5                   |
| 6/30/2008              | 185,883               | 6,434,522                               | 6,248,639                 | 2.9         | 3,190,332                 | 195.9                   |
| 6/30/2009***           | * 229,103             | 6,454,733                               | 6,225,630                 | 3.5         | 3,253,077                 | 191.4                   |

#### Schedule of Funding Progress Life Insurance Fund

(Dollar amount in thousands)

| Actuarial<br>Valuation             | Actuarial Value of Assets | Actuarial Accrued<br>Liability<br>(AAL)<br>Projected Unit<br>Credit | Unfunded<br>AAL<br>(UAAL) | Funded<br>Ratio | Covered<br>Payroll | UAAL as a<br>Percentage<br>of Covered<br>Payroll |
|------------------------------------|---------------------------|---|---------------------------|-----------------|--------------------|--|
| Date 6/30/2007 6/30/2008 6/30/2009 | (a)                       | (b)   | (b-a)                     | (a/b)           | (c)                | ((b-a) /c)                                       |
|                                    | \$ 71,426                 | \$ 82,722   | \$ 11,296                 | 86.3%           | \$ 2,975,289       | 0.38%  |
|                                    | 77,658                    | 84,265  | 6,607                     | 92.2            | 3,190,332          | 0.21   |
|                                    | 84,703                    | 90,334  | 5,631                     | 93.8            | 3,253,077          | 0.17   |

2. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at June 30, 2009. Additional information as of the latest actuarial valuation follows.

| Valuation Date                                | ) |
|---|---|
| Actuarial cost methodProjected unit credit    | t |
| Amortization methodLevel percent of pay, open | ı |
| Remaining amortization period                 | s |
| Asset valuation method Market Value of Assets | 3 |

**Actuarial Assumptions:** 

Investment Rate of Return\*
4.50%for Medical &
7.50% for Life Insurance
Healthcare Trend Rate\*
10.50%

Ultimate Trend Rate 5.00%

Year of Ultimate Trend Rate 2017 \*Includes Inflation at 4.00%



| Schedule of Employer Contributions<br>Medical Insurance Fund |   |  |  |  |   |
|--|---|--|--|--|---|
| Fiscal<br>Year<br>Ending                                     | Annual Required<br>Contribution<br>(ARC)<br>(a) | Actual<br>Employer<br>Contribution<br>(b)    | Retiree Drug<br>Subsidy<br>Contribution<br>(c) | Total Contribution (b) + (c)                 | Percentage<br>of ARC<br>Contributed<br>[(b) + (c)] / (a)] |
| 6/30/2007<br>6/30/2008<br>6/30/2009                          | \$ 231,473,321<br>395,282,164<br>467,312,904    | \$ 113,258,761<br>148,954,644<br>164,480,119 | \$ 10,312,361<br>11,911,565<br>13,611,748      | \$ 123,571,122<br>160,866,209<br>178,091,867 | 53.4%<br>40.7<br>38.1                                     |

#### Schedule of Employer Contributions Life Insurance Fund

| Fiscal<br>Year<br>Ending | Annual Required<br>Contribution<br>(ARC)<br>(a) | Actual<br>Employer<br>Contribution<br>(b) | Percentage<br>of ARC<br>Contributed<br>(b) / (a) |
|--------------------------|---|---|--|
| 6/30/2007                | \$ 1,785,173                                    | \$ 5,022,137                              | 281.3%   |
| 6/30/2008                | 1,914,199                                       | 5,411,249                                 | 282.7  |
| 6/30/2009                | 1,498,076                                       | 5,455,473                                 | 364.2  |

3. Following is the calculation of the Annual OPEB Cost (AOC) and the Net OPEB Obligation (NOO) for the fiscal year ending June 30, 2009. As the medical and life insurance plans are cost-sharing multiple-employer plans, GASB Statement 45 does not require the participating employers to disclose this information.

## Annual OPEB Cost and Net OPEB Obligation for the Medical Insurance Fund for Fiscal Year Ending June 30, 2009

| (a) Employer Annual Required Contribution                | \$ 467,312,904 |
|--|----------------|
| (b) Interest on Net OPEB Obligation                      | 10,548,718     |
| (c) Adjustment to Annual Required Contribution           | 8,369,404      |
| (d) Annual OPEB Cost: (a) + (b) - (c)                    | 469,492,218    |
| (e) Employer contributions for Fiscal Year 2009          | 178,091,867    |
| (f) Increase in Net OPEB Obligation: (d) - (e)           | 291,400,351    |
| (g) Net OPEB Obligation at beginning of Fiscal Year      | 234,415,955    |
| (h) Net OPEB Obligation at end of Fiscal Year: (f) + (g) | \$ 525,816,306 |



| Tre                      | Trend Information for the Medical Insurance Fund |                                     |                                 |  |  |  |  |
|--------------------------|--|-------------------------------------|---------------------------------|--|--|--|--|
| Fiscal<br>Year<br>Ending | Annual OPEB<br>Cost (AOC)                        | Percentage<br>of AOC<br>Contributed | Net OPEB<br>Obligation<br>(NOO) |  |  |  |  |
| 6/30/2008<br>6/30/2009   | \$ 395,282,164<br>469,492,218                    | 40.7%<br>37.9                       | \$ 234,415,955<br>525,816,306   |  |  |  |  |

| Annual OPEB Cost and Net OPEB Obligation for the Life Insurance Fund for Fiscal year Ending June 30, 2009 |               |  |  |  |  |
|---|---------------|--|--|--|--|
| (a) Employer Annual Required Contribution   | \$ 1,498,076  |  |  |  |  |
| (b) Interest on Net OPEB Obligation   | (262,279)     |  |  |  |  |
| (c) Adjustment to Annual Required Contribution  | (180,859)     |  |  |  |  |
| (d) Annual OPEB Cost: (a) + (b) - (c)   | 1,416,656     |  |  |  |  |
| (e) Employer contributions for Fiscal Year 2009   | 5,455,473     |  |  |  |  |
| (f) Increase in Net OPEB Obligation: (d) - (e)  | (4,038,817)   |  |  |  |  |
| (g) Net OPEB Obligation at beginning of Fiscal Year   | (3,497,050)   |  |  |  |  |
| (h) Net OPEB Obligation at end of Fiscal Year: (f) + (g)  | (\$7,535,867) |  |  |  |  |
|   |               |  |  |  |  |

|                          | Trend Information for the Life Insurance Fund |                                     |                                 |  |  |  |  |  |
|--------------------------|---|-------------------------------------|---------------------------------|--|--|--|--|--|
| Fiscal<br>Year<br>Ending | Annual OPEB<br>Cost (AOC)                     | Percentage<br>of AOC<br>Contributed | Net OPEB<br>Obligation<br>(NOO) |  |  |  |  |  |
| 6/30/2008<br>6/30/2009   | \$ 1,914,199<br>1,416,656                     | 282.7%<br>385.1                     | (\$3,497,050)<br>(7,535,867)    |  |  |  |  |  |



| <u>SCHEDU</u><br>Benefits of Pre-Fund  |   | n   |   |
|--|---|---|---|
| (1,000   | 's)   |   |   |
|  | Pay-As-You-Go<br>Discount Rate<br>4.50%           | Pre-Funding<br>Discount Rate<br>7.50%             | Pre-Funding<br>Discount Rate<br>8.00%         |
| PAYROLL  | \$ 3,253,077                                      | \$ 3,253,077                                      | \$ 3,253,077                                  |
| ACTUARIAL ACCRUED LIABILITY  |   |   |   |
| Present value of prospective benefits payable in respect of:   |   |   |   |
| <ul> <li>(a) Present active members:</li> <li>(b) Present retired members and covered spouses:</li> <li>(c) Total actuarial accrued liability</li> </ul> | \$ 3,250,990                                      | \$ 1,689,955<br>2,288,593<br>3,978,548            | \$ 1,536,618<br><u>2,179,273</u><br>3,715,891 |
| PRESENT ASSETS FOR VALUATION PURPOSES  | 229,103   | 229,103   | 229,103                                       |
| UNFUNDED ACTUARIAL ACCRUED LIABILITY   | \$ 6,225,630                                      | 3,749,445   | 3,486,788                                     |
| CONTRIBUTIONS FOR FISCAL YEAR ENDING JUNE 30, 2012:  |   |   | ·   |
| Normal<br>Accrued Liability<br>Total   | 7.53 %<br>6.83<br>14.36 %                         | 3.42 %<br>5.96<br>9.38 %                          | 3.05 %<br>5.86<br>8.91%                       |
|  | Hired prior Hired on or<br>to 7/1/08 after 7/1/08 | Hired prior Hired on or<br>to 7/1/08 after 7/1/08 |   |
| Member   | 0.75% 1.75%                                       | 0.75% 1.75%                                       | 0.75% 1.75%                                   |
| State (ARC)<br>Total   | 13.61 12.61<br>14.36% 14.36%                      | 8.63<br>9.38%<br>7.63<br>9.38%                    | 8.16<br>8.91% 7.16<br>8.91%                   |

## SCHEDULE B MEDICAL INSURANCE FUND Summary of Receipts & Disbursements (Market Value)

| (Market                                       | ·urue)         |                |
|---|----------------|----------------|
|   | For the Ye     | ar Ending      |
| RECEIPTS FOR THE YEAR                         | June 30, 2009  | June 30, 2008  |
| Contributions                                 | <u> </u>       | <del></del>    |
| Members Statutory                             | \$ 25,134,252  | \$ 24,125,800  |
| Payment by Retired Members                    | 33,554,515     | 31,277,030     |
| Total Members                                 | 58,688,767     | 55,402,830     |
| State Statutory Contributions                 | 25,022,737     | 23,929,322     |
| State Special                                 | 0              | 0              |
| General Fund Surplus (6/2006)                 | 0              | 0              |
| Allotment from Pension Fund                   | 139,385,300    | 125,000,000    |
| Total Employer                                | 164,408,037    | 148,929,322    |
| Grand Total                                   | 223,096,804    | 204,332,152    |
| Recovery Income                               | 72,082         | 25,322         |
| Medicare D Receipts                           | 13,611,748     | 11,911,565     |
| Net Investment Income                         | 11,296,280     | 8,128,179      |
| TOTAL   | 248,076,914    | 224,397,218    |
| Disbursements for the Year                    |                |                |
| Refunds to Members                            | 0              | 10,015         |
| Medical Insurance Expense                     | 204,857,122    | 179,276,215    |
| TOTAL   | 204,857,122    | 179,286,230    |
| Excess of Receipts over Disbursements         | 43,219,792     | 45,110,988     |
| Reconciliation of Asset Balances              |                |                |
| Asset Balance as of the Beginning of the Year | 185,883,223    | 140,772,235    |
| Excess of Receipts over Disbursements         | 43,219,792     | 45,110,988     |
| Asset Balance as of the End of the Year       | \$ 229,103,015 | \$ 185,883,223 |

## SCHEDULE B (continued) LIFE INSURANCE FUND Summary of Receipts & Disbursements (Market Value)

#### For the Year Ending

| RECEIPTS FOR THE YEAR                         | <u>June 30, 2009</u> | June 30, 2008 |
|---|----------------------|---------------|
| Contributions                                 |                      |               |
| Members                                       | \$ 0                 | \$            |
| Employers                                     | 5,455,473            | 5,411,249     |
| Total   | 5,455,473            | 5,411,249     |
| Net Investment Income                         | 5,282,958            | 6,321,49      |
| TOTAL   | 10,738,431           | 11,732,740    |
| DISBURSEMENTS FOR THE YEAR                    |                      |               |
| Benefits Payments                             | 3,694,000            | 4,003,000     |
| Refunds to Members                            | 0                    | (             |
| Medical Insurance Payments                    | 0                    | (             |
| Miscellaneous, including expenses             | 0                    | (             |
| TOTAL   | 3,694,000            | 4,003,000     |
| EXCESS OF RECEIPTS OVER DISBURSEMENTS         | 7,044,431            | 7,729,740     |
| RECONCILIATION OF ASSET BALANCES              |                      |               |
| Asset Balance as of the Beginning of the Year | 77,658,203           | 69,928,463    |
| Excess of Receipts over Disbursements         | 7,044,431            | 7,729,740     |
| Asset Balance as of End of the Year           | \$ 84,702,634        | \$ 77,658,203 |

## SCHEDULE C Outline of Actuarial Assumptions and Methods

The rates of retirement, disability, mortality, and termination used in the valuation were selected by the Actuary based on the actuarial experience investigation as of June 30, 2005 and adopted by the Board of Trustees on September 18, 2006. The discount rate, rates of future participation, health care cost trend rates, and expected plan costs were determined by the actuary based on plan experience.

Valuation Date: June 30, 2009

**Discount Rate:** 4.5% per annum, compounded annually for medical plans

7.5% per annum, compounded annually for life insurance plan



**Health Care Cost Trend Rates:** Following is a chart detailing trend assumptions.

| Fiscal Year | Trend |
|-------------|-------|
| 2010        | 10.5% |
| 2011        | 9.5   |
| 2012        | 8.5   |
| 2013        | 7.5   |
| 2014        | 6.5   |
| 2015        | 6.0   |
| 2016        | 5.5   |
| 2017 and    | 5.0   |
| beyond      |       |

**Age Related Morbidity:** For retirees age 65 and older, per capita costs are adjusted to reflect expected medical cost changes related to age. The increase to the net incurred claims was assumed to be:

| Participant Age | Annual Increase |
|-----------------|-----------------|
| 65 - 69         | 3.0 %           |
| 70 - 74         | 2.5             |
| 75 - 79         | 2.0             |
| 80 - 84         | 1.0             |
| 85 - 89         | 0.5             |
| 90 and over     | 0.0             |

**Anticipated Plan Participation:** Representative values of the assumed annual rates of medical plan participation are as follows:

|                  |                           | Hired after                  |                  | Hired 6/30/02 a                             | nd earlier                              |
|------------------|---------------------------|------------------------------|------------------|---|---|
| Years of Service | Hired 7/1/08<br>and later | 6/30/02 and<br>before 7/1/08 | Years of Service | Age 65 on<br>12/31/04<br><u>and earlier</u> | Age 65 on<br>1/1/05<br><u>and later</u> |
| 5-9.99           | Not Eligible              | 10%                          | 5-9.99           | 70%   | 25%                                     |
| 10-14.99         | Not Eligible              | 25                           | 10-14.99         | 80  | 50                                      |
| 15-19.99         | 45%                       | 45                           | 15-19.99         | 90  | 75                                      |
| 20-24.99         | 65                        | 65                           | 20-24.99         | 93  | 93                                      |
| 25-25.99         | 90                        | 90                           | 25-25.99         | 93  | 93                                      |
| 26-26.99         | 93                        | 93                           | 26-26.99         | 93  | 93                                      |
| 27 or more       | 93                        | 93                           | 27 or more       | 93  | 93                                      |



**Separations From Service:** Representative values of the assumed annual rates of death, disability, withdrawal, service retirement and early retirement are as follows:

|     | I<br>I      |            | WITHDRAWAL |                 | RETIRE | EMENT                      |                               |
|-----|-------------|------------|------------|-----------------|--------|----------------------------|-------------------------------|
| AGE | DEATH       | DISABILITY | 0 - 4      | ERVICE<br>5 - 9 | 10+    | Before 27 Years of Service | After 27 Years of<br>Service* |
| 20  | 0.003%      | 0.01%      | 9.00%      |                 |        |                            |                               |
| 25  | 0.010       | 0.01       | 9.00       | 1.50%           |        |                            |                               |
| 30  | 0.016       | 0.02       | 9.00       | 3.00            | 3.00%  |                            |                               |
| 35  | 0.032       | 0.05       | 10.00      | 3.25            | 1.50   | i<br>İ                     |                               |
| 40  | 0.048       | 0.08       | 10.00      | 3.75            | 1.50   | 1                          |                               |
| 45  | 0.064       | 0.22       | 9.50       | 2.50            | 1.50   | 1                          | 25.0%                         |
| 50  | 0.104       | 0.42       | 10.00      | 4.00            | 3.00   |                            | 20.0                          |
| 55  | 0.216       | 0.60       | 11.00      | 3.00            | 2.70   | 6.0%                       | 35.0                          |
| 60  | 0.375       | 0.79       | 11.00      | 3.00            | 2.70   | 14.0                       | 25.0                          |
| 62  | $1_{0.438}$ | 1 - 0.83   | 11.00      | 3.00            | 2.70   | 14.0                       | 23.0                          |
| 65  | 0.566       | 0.90       | 11.00      | 3.00            | 2.70   | 22.5                       | 35.0                          |
| 70  | 0.905       | 0.00       | 0.00       | 0.00            | 0.00   | 100.0                      | 100.0                         |

<sup>\*</sup> Plus 5% before age 55 and 15% after age 55 in year when first eligible for unreduced retirement with 27 years of service.

|     | !           | <br> -     | WI     | THDRAV  | VAL   | <br>                       | AMENIT'                       |
|-----|-------------|------------|--------|---------|-------|----------------------------|-------------------------------|
|     |             | ļ .        | S      | SERVICE |       | RETIREMENT                 |                               |
| AGE | DEATH<br>   | DISABILITY | 0 - 4  | 5 - 9   | 10+   | Before 27 Years of Service | After 27 Years<br>of Service* |
| 20  | 0.002%      | 0.03%      | 6.00 % |         |       |                            |                               |
| 25  | $1_{0.007}$ | 0.03       | 8.50   | 3.00 %  |       |                            |                               |
| 30  | 0.014       | 0.04       | 9.00   | 4.00    | 1.50% |                            |                               |
| 35  | 0.026       | 0.11       | 8.50   | 4.00    | 2.00  | i                          |                               |
| 40  | 0.044       | 0.22       | 8.50   | 2.50    | 1.50  | 1                          |                               |
| 45  | $1_{0.055}$ | 0.38       | 7.00   | 2.50    | 1.50  |                            | 25.0%                         |
| 50  | 0.066       | 0.44       | 8.50   | 3.00    | 2.25  |                            | 20.0                          |
| 55  | 0.085       | 0.56       | 10.00  | 3.50    | 2.50  | 7.5%                       | 35.0                          |
| 60  | 0.122       | 0.85       | 11.00  | 3.50    | 2.50  | 16.5                       | 30.0                          |
| 62  | 0.137       | 0.85       | 11.00  | 3.50    | 2.50  | 12.5                       | 25.0                          |
| 65  | $1_{0.159}$ | 0.85       | 11.00  | 3.50    | 2.50  | 26.0                       | 30.0                          |
| 70  | 0.195       | 0.00       | 0.00   | 0.00    | 0.00  | 100.0                      | 100.0                         |

<sup>\*</sup> Plus 5% before age 55 and 20% after age 55 in year when first eligible for unreduced retirement with 27 years of service.



**Deaths After Retirement:** According to the 1994 Group Annuity Mortality table for the period after service retirement. Special rates are used for the period after disability retirement. Representative values of the assumed annual rates of death after service and disability retirement are as follows:

Annual Rate of Death After . . .

|     | Service R | etirement | Disabili | ty Retirement |
|-----|-----------|-----------|----------|---------------|
| Age | MALE      | FEMALE    | MALE     | FEMALE        |
| 45  | 0.1578 %  | 0.0973 %  | 6.500%   | 6.500%        |
| 50  | 0.2579    | 0.1428    | 10.000   | 10.000        |
| 55  | 0.4425    | 0.2294    | 10.000   | 10.000        |
| 60  | 0.7976    | 0.4439    | 9.000    | 9.000         |
| 65  | 1.4535    | 0.8636    | 10.000   | 10.000        |
| 70  | 2.3730    | 1.3730    | 6.500    | 4.500         |
| 75  | 3.7211    | 2.2686    | 7.000    | 6.000         |
| 80  | 6.2027    | 3.9396    | 10.000   | 6.500         |
| 85  | 9.7240    | 6.7738    | 12.500   | 7.500         |
| 90  | 15.2931   | 11.6265   | 15.000   | 17.500        |
| 95  | 23.3606   | 18.6213   | 23.368   | 31.702        |

**Actuarial Method:** Costs were determined using the Projected Unit Credit Actuarial Cost Method. The annual service cost is the present value of the portion of the projected benefit attributable to participation service during the upcoming year, and the Actuarial Accrued Liability (AAL) is equal to the present value of the portion of the projected benefit attributable to service before the valuation date. Service from hire date through the date of full retirement eligibility was used in allocating costs.

**Assets:** Market Value as provided by KTRS. Return on assets assumed to be 4.50% for the Medical Insurance Fund and 7.50% for the Life Insurance Fund.

**Spouse Coverage:** Use actual census data and current plan elections for spouses of current retirees. For spouses of future retirees, assumed 20% of future retirees will cover spouses, with females 3 years younger than males.

**Medical Plan Costs:** Assumed per capita health care costs were based on past experience and trended based on the assumptions. Following is a chart detailing retiree per capita assumptions. These amounts include medical, drug, and administrative costs and represent the amount that KTRS pays as the full contribution amount. For retirees age 65 and older, the average costs shown are normalized to age 65 and then age adjusted in calculating liabilities.

|             | Average Monthly KTRS Full Costs & Contributions |                       |                          |  |  |  |
|-------------|---|-----------------------|--------------------------|--|--|--|
| <u>Year</u> | Pre-65 Full Cost and Contributions              | Post-65 Full<br>Costs | Post-65<br>Contributions |  |  |  |
| CY 2004     | \$ 293  | \$ 274                | \$ 274                   |  |  |  |
| CY 2005     | 412   | 288                   | 288                      |  |  |  |
| CY 2006     | 461   | 315                   | 315                      |  |  |  |
| CY 2007     | 458   | 283                   | 283                      |  |  |  |
| CY 2008     | 484   | 278                   | 278                      |  |  |  |
| CY 2009     | 545   | 301*                  | 285                      |  |  |  |
| CY 2010     | 594   | 373*                  | 342                      |  |  |  |



<sup>\*</sup> Under GASB 43 and 45, cost reductions for the amount of the Medicare Part D Retiree Drug Subsidy cannot be taken into account in the gross cost calculations.

### Summary of Main Plan Provisions as Interpreted for Valuation Purposes

**RETIREE MEDICAL ELIGIBILITY:** For those hired prior to July 1, 2008, retiree medical eligibility is attained when an employee retires, which is possible after the completion of 27 years of service or attainment of age 55 and 5 years of service. For those hired on or after July 1, 2008, employees may retire after the completion of 27 years of service, the attainment of age 55 and 10 years of service, or the attainment of age 60 and 5 years of service, but must complete a minimum of 15 years of service to be eligible for medical benefits. Disabled employees, who are totally and permanently incapable of being employed as a teacher and under age 60, but after completing the minimum years of service requirement, are eligible for subsidized retiree medical coverage that is based on the number of years of service credit accrued at disability retirement. At the expiration of the disability entitlement period, the subsidy is recalculated based upon the number of years of service credit that would have accrued had the member remained active. Spouses of those actives who die while eligible to retire are eligible for retiree medical coverage when the death occurred prior to July 1, 2002.

**MEDICAL PLAN CONTRIBUTIONS:** The full contribution is provided to retirees with 27 or more years of service. The full contribution is determined by KTRS; the full cost is projected based on historical claims data. For retirees with less than 27 years of service, the following percentages of these full contributions are provided:

| Pe               | Percentage of Full Medical Contribution Provided to Retirees |  |                                       |                              |  |  |  |
|------------------|--|--|---------------------------------------|------------------------------|--|--|--|
| Years of Service | Hired before 7/1/02 (age 65 on 12/31/04 or earlier)          | Hired Before<br>7/1/02<br>(age 65 on<br>1/1/05 or later) | Hired after 6/30/02 and before 7/1/08 | Hired<br>7/1/08<br>and later |  |  |  |
| 27 or more       | 100 %  | 100 %  | 100 %                                 | 100 %                        |  |  |  |
| 26 - 26.99       | 100  | 100  | 95                                    | 95                           |  |  |  |
| 25 - 25.99       | 100  | 100  | 90                                    | 90                           |  |  |  |
| 20 - 24.99       | 100  | 100  | 65                                    | 65                           |  |  |  |
| 15 - 19.99       | 90   | 75   | 45                                    | 45                           |  |  |  |
| 10 - 14.99       | 80   | 50   | 25                                    | Not Eligible                 |  |  |  |
| 5 - 9.99         | 70   | 25   | 10                                    | Not Eligible                 |  |  |  |

Effective 1/1/2009, contributions towards pre-65 retirees and spouses healthcare are based upon the Commonwealth Capital Choice Plan which has a total rate of \$594.14 per month for Single Coverage. A minimum contribution of \$5.00 is required to be paid by all pre-65 retirees and an additional \$24.00 per month contribution is required for pre-65 retiree smokers.

Spouses of post-65 retirees, as well as surviving spouses of deceased retirees, pay 100% of the full contribution. For spouses of active members who died while eligible to retire, prior to July 1, 2002, KTRS provides the same subsidy they would have provided to the retiree for the lifetime of the spouse, or until remarriage. For spouses of active members who die while eligible to retire July 1, 2002, or later, spouses pay 100% of the full contribution.

100% of the full cost for non-Medicare eligible dependents is paid through a combination of payments from beneficiaries and the State.



#### Life Insurance Benefit

- (1) Effective July 1, 2000, the Teachers' Retirement System shall:
- (a) Provide a life insurance benefit in a minimum amount of five thousand dollars (\$5,000) for its members who are retired for service or disability. This life insurance benefit shall be payable upon the death of a member retired for service or disability to the member's estate or to a party designated by the member on a form prescribed by the retirement system; and
- (b) Provide a life insurance benefit in a minimum amount of two thousand dollars (\$2,000) for its active contributing members. This life insurance benefit shall be payable upon the death of an active contributing member to the member's estate or to a party designated by the member on a form prescribed by the retirement system.

Note: Qualified members working 45 days per year will be eligible for survivor benefits and a life insurance benefit for the balance of the fiscal year and disability benefits under certain conditions. For substitute and part-time members, the survivor benefits and life insurance benefit are provided during the first 44 days if death occurs as the result of a physical injury on the job. The disability benefit is available as a direct result of a physical injury on the job during the five-year vesting period. After vesting, the disability benefit is available upon working 45 days for the balance of that fiscal year in accordance with the regular KTRS disability program.



### SCHEDULE E Age - Service Table Distribution of Active Members as of June 30, 2009 by Age and Service Groups

| Attatined<br>Age                    | 0 to 4                          | 5 to 9                          | 10 to 14                        | 15 to 19                       | 20 to 24                       | 25 to 29                       | 30 to 34                       | >= 35                       | TOTAL                             |
|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------|-----------------------------------|
| 24 & under<br>Total Pay<br>Avg. Pay | 2,595<br>39,745,490<br>15,316   |                                 |                                 |                                |                                |                                |                                |                             | 2,595<br>39,745,490<br>15,316     |
| 25 to 29<br>Total Pay<br>Avg. Pay   | 7,615<br>227,008,336<br>29,811  | 1,290<br>57,380,853<br>44,481   |                                 |                                |                                |                                |                                |                             | 8,905<br>284,389,189<br>31,936    |
| 30 to 34<br>Total Pay<br>Avg. Pay   | 3,882<br>113,269,413<br>29,178  | 4,670<br>218,043,692<br>46,690  | 830<br>44,291,642<br>53,363     |                                |                                |                                |                                |                             | 9,382<br>375,604,747<br>40,035    |
| 35 to 39<br>Total Pay<br>Avg. Pay   | 3,010<br>79,647,918<br>26,461   | 2,545<br>121,131,930<br>47,596  | 3,984<br>221,265,021<br>55,538  | 662<br>39,293,353<br>59,356    |                                |                                |                                |                             | 10,201<br>461,338,222<br>45,225   |
| 40 to 44<br>Total Pay<br>Avg. Pay   | 3,840<br>79,186,648<br>20,622   | 1,648<br>79,487,856<br>48,233   | 2,095<br>116,421,557<br>55,571  | 2,717<br>166,421,024<br>61,252 | 664<br>41,840,206<br>63,012    |                                |                                |                             | 10,964<br>483,357,291<br>44,086   |
| 45 to 49<br>Total Pay<br>Avg. Pay   | 1,939<br>48,445,446<br>24,985   | 1,291<br>63,598,288<br>49,263   | 1,361<br>77,417,070<br>56,882   | 1,452<br>89,497,680<br>61,638  | 2,172<br>138,769,270<br>63,890 | 600<br>39,410,174<br>65,684    |                                |                             | 8,815<br>457,137,928<br>51,859    |
| 50 to 54<br>Total Pay<br>Avg. Pay   | 1,697<br>33,728,120<br>19,875   | 1,024<br>51,433,269<br>50,228   | 1,183<br>67,764,908<br>57,282   | 1,249<br>76,847,143<br>61,527  | 1,374<br>90,516,215<br>65,878  | 1,625<br>109,873,901<br>67,615 | 538<br>36,696,325<br>68,209    |                             | 8,690<br>466,859,881<br>53,724    |
| 55 to 59<br>Total Pay<br>Avg. Pay   | 2,797<br>45,773,868<br>16,365   | 762<br>40,581,777<br>53,257     | 946<br>56,268,484<br>59,480     | 1,088<br>69,862,760<br>64,212  | 1,174<br>78,212,871<br>66,621  | 785<br>54,852,877<br>69,876    | 780<br>58,587,128<br>75,112    | 117<br>9,522,788<br>81,391  | 8,449<br>413,662,553<br>48,960    |
| 60 to 64<br>Total Pay<br>Avg. Pay   | 2,712<br>37,994,285<br>14,010   | 425<br>22,697,514<br>53,406     | 428<br>26,730,945<br>62,455     | 526<br>33,975,145<br>64,592    | 532<br>36,953,135<br>69,461    | 306<br>22,058,924<br>72,088    | 156<br>13,278,778<br>85,120    | 124<br>11,209,862<br>90,402 | 5,209<br>204,898,588<br>39,335    |
| 65 & over<br>Total Pay<br>Avg. Pay  | 2,055<br>19,405,654<br>9,443    | 128<br>6,689,343<br>52,260      | 108<br>6,997,460<br>64,791      | 105<br>7,054,833<br>67,189     | 127<br>8,858,222<br>69,750     | 59<br>4,351,813<br>73,760      | 53<br>4,221,793<br>79,656      | 92<br>8,503,592<br>92,430   | 2,727<br>66,082,710<br>24,233     |
| Total<br>Total Pay<br>Avg. Pay      | 32,142<br>724,205,178<br>22,531 | 13,783<br>661,044,522<br>47,961 | 10,935<br>617,157,087<br>56,439 | 7,799<br>482,951,938<br>61,925 | 6,043<br>395,149,919<br>65,390 | 3,375<br>230,547,689<br>68,310 | 1,527<br>112,784,024<br>73,860 | 333<br>29,236,242<br>87,797 | 75,937<br>3,253,076,599<br>42,839 |

| Retirees Receiving Health Benefits as of June 30, 2009 |          |         |        |  |  |  |
|--|----------|---------|--------|--|--|--|
|  | Under 65 | Over 65 | Total  |  |  |  |
| Number   | 15,614   | 17,867  | 33,481 |  |  |  |
| Average Age  | 59.7     | 75.0    | 67.9   |  |  |  |



